MYLAN SCHOOL OF PHARMACY
AND THE
GRADUATE SCHOOL OF
PHARMACEUTICAL SCIENCES

Advancing Pharmacy,
Changing Lives
As the seventh dean of Duquesne University’s Mylan School of Pharmacy and the Graduate School of Pharmaceutical Sciences, I have been entrusted to continue our proud legacy of advancing pharmacy while changing lives. This challenge is shared by our faculty, staff, preceptors and academic partners who are committed to a student-centered learning experience.

Being a member of our learning community affords our students the opportunity to experience an innovative curriculum, contemporary facilities and first-in-class academic research centers. Students also have the chance to engage in our commitment to improving health outcomes for patients and their communities. Connections with our community of scholars and teachers give our students a unique perspective on research that is making a difference in their classroom experience while simultaneously improving patient care and pharmaceutical research outcomes.

Community outreach is more than an expectation for our students: it is a realization of their professional responsibility. Making a difference in our neighborhoods is essential to our students’ growth and experience here at Duquesne.

Beyond campus and our Pittsburgh neighbors, our community spans the world through formal partnerships with faculties of pharmacy in Japan, China, Italy and Nigeria. Through these opportunities, we are expanding global pharmacy education and helping our students understand the diversity of approaches to improving health outcomes around the world.

What starts here in our classrooms and laboratories truly expands beyond campus walls and makes a difference in our local and global community.

J. Douglas Bricker, Ph.D.
Dean
Our Commitment: Rigorous Research, Community Service

Since 1925, Duquesne has excelled in developing student pharmacists and pharmaceutical science graduates into leaders. Our faculty, staff and partners honor that legacy by challenging our students to anticipate next-generation challenges while improving the health of patients and their communities. That three-fold focus yields dividends for the profession, the practitioner and the patient.

Situated in the heart of Pittsburgh, one of the nation’s most dynamic medical and research hubs, the School of Pharmacy immerses students in rigorous study. The school is nationally recognized for interactive teaching programs, advanced research laboratories and internationally acclaimed faculty.

Our History of Firsts

The Mylan School of Pharmacy continues to innovate, leading pharmacy schools across the nation.

THE CENTER FOR PHARMACY SERVICES
An off-campus community pharmacy designed by faculty, the Center for Pharmacy Services is a unique national model. The center puts students on the front line of serving local residents and the campus community—a unique opportunity for training and service.

PHARM.D. WEEKEND PROGRAM
Our innovative approach supports the needs of contemporary students. The country’s first post-baccalaureate Doctor of Pharmacy weekend pathway program combines on-site weekend courses with online technologies for students who demand flexible schedules to manage school, career and family.

B.S IN HEALTH CARE SUPPLY CHAIN MANAGEMENT
The first U.S. degree of its kind to be offered by a school of pharmacy, the Bachelor of Science in Health Care Supply Chain Management is a collaborative program led by faculty from the School of Pharmacy, the Palumbo-Donahue School of Business and the Rangos School of Health Sciences. Students learn the logistics of directing complex health care delivery systems through experiential internships and a network of executive mentors.

Innovation Starts in the Classroom

A rigorous curriculum leads to academic and professional excellence, research breakthroughs and improved health outcomes.

Educators now realize the critical added value of active learning—an approach that requires students to become full partners who are accountable for their education. We challenge students to analyze and synthesize laboratory and classroom information, apply outside learning experiences, and demonstrate their competence. Every academic encounter provides the tools and technologies to succeed—including SimMan 3G, a patient simulator that provides lifelike training in patient assessment and care.

The second floor of the Bayer Learning Center includes hands-on laboratories, modular classroom spaces, learning commons with conference-style rooms and offices for student organizations. The vibrant academic space welcomes and challenges students.
BY TAKING STUDENT PHARMACISTS FROM CLASSROOM LEARNING TO SIMULATIONS TO LIVE PATIENT CARE, WE BUILD CORE SKILLS: PROMOTING WELLNESS AND ASSISTING IN MEDICATION THERAPY MANAGEMENT.

ACADEMIC RESEARCH CENTERS
Through innovation and collaboration among students, faculty, University partners and the community, our Academic Research Centers provide extensive resources and opportunities for real-world experience. Here, students can explore pathways to developing new treatments and delivery methods to advance pharmacy practice while making a real difference for patients and the community.

CENTER FOR PHARMACY CARE
Community wellness, disease prevention and medication therapy management programs, including hypertension, diabetes and osteoporosis.

GIANT EAGLE CENTER FOR PHARMACY PRACTICE
The center creates an environment in which students work together and draw connections between class lectures and pharmacy practice.

CENTER FOR PHARMACY SERVICES
Embedded in the nearby Hill District community, the center is the nation’s first faculty-designed, university-operated community pharmacy.

CENTER FOR PHARMACEUTICAL INFORMATION
This drug information service fields questions from alumni, students, faculty and the public.

CENTER FOR PHARMACEUTICAL TECHNOLOGY
Working with collaborators and clients including the U.S. Food and Drug Administration, Duquesne research improves pharmaceutical manufacturing and quality assurance.

ACADEMIC PARTNERS PROGRAM
Creating and strengthening relationships is also vital to advancing our teaching, research and service — and few relationships are as vital as those within our own communities. Our Academic Partners Program includes collaborations with practitioners at ambulatory care, acute care and community practices around the Pittsburgh region, including UPMC Shadyside, UPMC Mercy, UPMC Passavant, Ohio Valley Hospital, St. Barnabas Health Center, Children’s Institute, Bethlehem Haven, Catholic Charities and Walgreen’s Specialty.

REAL-WORLD OPPORTUNITIES
Center for Pharmacy Care
Giant Eagle Center for Pharmacy Practice
Center for Pharmacy Services
Center for Pharmaceutical Information
Center for Pharmaceutical Technology

CENTER FOR PHARMACY SERVICES
Embedded in the nearby Hill District community, the center is the nation’s first faculty-designed, university-operated community pharmacy.
THE WHITE COAT DONNED BY STUDENT PHARMACISTS IS A SYMBOL OF THEIR COMMITMENT TO PROFESSIONALISM. THEY WEAR THE COAT THROUGHOUT THE FOUR-YEAR PROFESSIONAL PHASE OF THE PROGRAM DURING ALL LABORATORY WORK AND EXPERIENTIAL EDUCATION EXPERIENCES.
With about 20 percent of its patients unable to pay for their medications, the pharmacy works to improve access by coordinating community resources and delivery options.

**The Center for Pharmacy Care**

Our steadfast commitment to improving the health and well-being of our on-campus community and residents throughout the Pittsburgh region radiates in the services we provide through the Center for Pharmacy Care. For more than a decade, the center has been educating the community about general health and wellness issues, disease prevention and medication therapy management. The center also offers adult immunizations and health risk assessments, and charts progress toward positive patient outcomes.

In 2005, we expanded neighborhood outreach through our Spirit of Health Initiative, the region’s first faith-based mobile wellness and disease prevention outreach program. The Spirit of Health delivers free health screenings, such as blood pressure, cholesterol and blood glucose, as well as medication therapy management services, immunizations and health education to medically underserved individuals. The care team includes pharmacy faculty, pharmacy fellows and residents, student pharmacists and parish nurses.

**Focus on Children**

For children suffering from undiagnosed or uncontrolled asthma in inner-city Pittsburgh, the School of Pharmacy has developed a series of screenings and educational camps. Supported through grant funding, the camps offer screenings, as well as education on asthma control and weight management. Exercising with Duquesne student athletes, children learn how to increase their physical activity while managing their asthma. Physicians, pharmacists and student pharmacists staff each camp, along with physicians from the Department of Allergy, Asthma and Immunology at Allegheny General Hospital and members of For Your Good Health, a regional non-profit focused on health education.

In December 2010, the center is recognized as a first-in-the-nation, off-campus, university-operated community pharmacy. In 2012, the pharmacy served 1,984 patients and dispensed more than 26,800 prescriptions.

The pharmacy serves both the public and the University community, helping patients manage their medications and live healthier lifestyles with free health and wellness screenings, medication therapy management and free delivery of prescription medication.

**In Our Neighborhoods**

Our commitment to improving the health of patients and their communities inspired the Center for Pharmacy Services, a full-service, mission-driven community pharmacy located in the Hill District of Pittsburgh. The medically underserved area’s poverty rate is three times the county average.

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WHEN PEOPLE ASK DR. GANGJEE WHAT HE DOES, HE REPLIES, "I DESIGN MOLECULES JUST FOR FUN. I LOVE DOING IT JUST LIKE PEOPLE LOVE PLAYING GOLF."

Dr. Aleem Gangjee — professor of medicinal chemistry; Rev. Adrian Van Kaam, C.S.Sp., Endowed Chair in Scholarly Excellence; and Distinguished Professor in the School of Pharmacy — is leading the charge to combat today’s most challenging diseases. Dr. Gangjee, who has held five concurrent National Institutes of Health (NIH) R01 grants for cancer and other deadly diseases, has developed many new compounds and received more than 25 patents and $18 million in NIH funding in his 30 years of research at Duquesne.

In addition, Dr. Gangjee has received a $1.35 million, five-year grant from the NCI to further refine compounds to treat cancer that becomes resistant to commonly used drugs, as well as a $1.9 million, five-year award from the National Institute of Allergy and Infectious Diseases, an arm of the NIH, to develop compounds that show promise of defeating stubborn fungal infections that can further threaten or claim the lives of immune-compromised patients.

Dr. Jane E. Cavanaugh, assistant professor of pharmacology, noticed an outcome that may hold hope for aging humans. Cavanaugh recently investigated how manmade compounds that mimic resveratrol, the so-called “miracle molecule” found in red wine, improved the balance of rodents navigating a balance beam. Cavanaugh had previously studied neurodegenerative diseases that alter mood, higher mental and motor functions. Her resveratrol finding, believed to be the first of its kind, may aid efforts to improve mobility and prevent life-threatening falls among older people.

Melatonin, a natural hormone produced by the brain’s pineal gland, has positive effects, in supplement form, on sleep and wake cycles. But its impact may be even wider. Dr. Paula Witt-Enderby, professor of pharmacology and toxicology, has published the results of a study that examined the hormone’s ability to modulate bone markers and quality of life in menopausal women.

Dr. Witt-Enderby and Dr. Judith Balk of the University of Pittsburgh School of Medicine studied the effects of melatonin in perimenopausal women. Comparing women taking a small dose of the supplement with women taking a placebo over a six-month period, they found the melatonin group showed a trend toward normalization, in which bone breakdown equals that of bone formation. The study’s findings indicate that melatonin treatment may re-establish the equilibrium disrupted during menopause. Next, Dr. Witt-Enderby and Dr. Balk will expand the trials to work with approximately 120 women over a two-year period.
Our Distinction: Academic Excellence, Personal Attention

As testament to our mission-driven commitment to academic excellence, Duquesne has earned numerous accolades for our programs and initiatives. Equally important, our professors are dedicated mentors who make an indelible impact on our students. They are deeply invested in helping our students and alumni develop their careers and make a meaningful contribution. With a thoughtful mix of programs, services and resources, the School of Pharmacy provides a spiritual and academic foundation that spurs personal and professional growth.

Rankings

Duquesne University is consistently included in the top tier of U.S. News & World Report rankings, including being the only university in Pennsylvania listed among the 20 most financially efficient top-ranked schools. Duquesne also excels as a research institution. The University was ranked 16th among small research institutions in a recent index by the Chronicle of Higher Education. The journal measured faculty productivity at U.S. doctoral colleges.

Community Focus, Global Opportunities

To provide student pharmacists with a global perspective, the School of Pharmacy participates in vibrant international exchange programs with schools of pharmacy in Italy, China, Japan and Africa. Duquesne’s formalized partnership with the University of Perugia, home to Italy’s top pharmacy school, marks the first agreement of its kind between Perugia and an American university. International students from these schools who are hosted at Duquesne enjoy classroom lectures, field experience and visits to the Center for Pharmacy Services, as well as various pharmacy practice sites and pharmaceutical manufacturing operations. In turn, Duquesne student pharmacists and faculty travel to other continents, observing first-hand how culture impacts the practice of pharmacy around the world.

Celebrating Diversity

At Duquesne University, diversity and inclusion are mainstays of our mission. Our rich community of academically talented students hails from all 50 states and more than 90 countries, representing a wide range of faiths, races and socio-economic backgrounds. We believe each one contributes to a unique, vibrant learning community that values different viewpoints—making a Duquesne education a distinctive and transformational experience that will last a lifetime.

We continually strive to nurture an environment that recognizes and applauds the unique skills, talents and perspectives each of us contributes to our rich cultural tapestry.
HELPING TO SHAPE THE FUTURE OF PHARMACY BY PREPARING STUDENTS TO IMPROVE HEALTH OUTCOMES FOR PATIENTS AND THEIR COMMUNITIES.